JOURNAL

OF THE

Elisha Mitchell Scientific Society

VOLUME 74
1958

This Society was founded in 1883 through the efforts of
Francis Preston Venable

Published for the Society
by the
University of North Carolina Press

CONTENTS OF VOLUME 74

THE FOODS AND FEEDING HABITS OF THE SAVANNAH SPARROW IN WINTER. *Thomas L. Quay* 1

PROCAMBARUS PEARSEI PLUMIMANUS, A NEW CRAYFISH FROM NORTH CAROLINA. *Horton J. Hobbs, Jr. and Margaret Walton* 7

A TAXONOMIC CHANGE IN THE SUBFAMILY TOMOCERINAE (ORDER COLLEMBOLA). *Clifford B. Knight, Jr.* 13

STUDIES ON THE INFLUENCE OF A PRIOR INFECTION WITH *ANCYLOSTOMA CANINUM* ON THE ESTABLISHMENT AND MAINTENANCE OF *TRICHINELLA SPIRALIS* IN MICE. *Hilton T. Goulson* 14

MYRIOTRICHIA SCUTATA BLOMQ. CONSPECIFIC WITH *ECTOCARPUS SUBCORYMBOSUS* HOLDEN IN COLLINS. *H. L. Blomquist* 24

THE TAXONOMY AND CHROMATOPHORES OF *PYLAIELLA ANTILLARUM* (GRUNOW) DETONI. *H. L. Blomquist* 25

TAXONOMIC STUDIES IN NORTH AMERICAN MOSSES VI–XIII. *Howard Crum and Lewis E. Anderson* 31

LATIN DIAGNOSES OF EARLIER DESCRIBED SPECIES OF TREMELLALES. *Lindsay S. Olive* 41

SOME LIGNICOLOUS MARINE FUNGI FROM THE NORTH CAROLINA COAST. *T. W. Johnson, Jr.* 42

MORPHOLOGY AND CYTOLOGY OF THE ZOOSPORANGIA AND CYSTOSORI OF *SOROSPHAERA VERONICAE*. *Charles E. Miller* 49

EFFECTS OF GIBBERELLIC ACID ON THE GROWTH AND DEVELOPMENT OF XANTHIUM PENSYLVANICUM. *John G. Haesloop and Victor A. Greulach* 65

PROCEEDINGS OF THE FIFTY-FIFTH ANNUAL MEETING OF THE NORTH CAROLINA ACADEMY OF SCIENCE 69

PROCEEDINGS OF THE ELISHA MITCHELL SCIENTIFIC SOCIETY 94

THE ZOOLOGY LIBRARY OF THOMAS JEFFERSON. *Marion B. Savin and Harold J. Abrahams* 98

SOME FURTHER METHODS IN ALGEBRAIC CRYPTOGRAPHY. *Jack Levine* 110

EQUIVALENT NONLINEAR PROBLEMS. *Robert Mann* 114

NORTH CAROLINA EARTHQUAKES: 1957. *Gerald R. MacCarthy and Evelyn Z. Sinha* 117

LIFE HISTORY OF *NOTROPIS GALACTURUS* AND *RUBRICROCEUS*. *L. M. Outten* 122

THE YELLOW-LIPPED SNAKE, *RHADINAEA FLAVILATA* COPE IN NORTH CAROLINA. *John B. Funderburg, Jr.* 135

THE CONTROL OF REPEATED INFECTIONS WITH *TRICHINELLA SPIRALIS* IN MICE BY THE USE OF FEED CONTAINING CADMIUM OXIDE. *John E. Larsh, Jr., Hilton T. Goulson, and Allen Yarinsky* 137

AN UNUSUAL ALGAL HABITAT. *George J. Schumacher* 141

PHYTOPLANKTON IN NORTH CAROLINA LAKES AND PONDS. *L. A. Whitford* 143

SOME ADDITIONS TO THE FRESH-WATER ALGAL FLORA OF NORTH CAROLINA: ALGAE OCCURRING WITH *SPHAGNUM*. *Richard C. Smith* 158

SPORE DISCHARGE IN *TAPHRINA*. *Frederick A. Wolf* 161

THE CONIDIAL STAGE OF *LAMPROSPORA TRACHYCARPA* (CURRY) SEAVER. *Frederick A. Wolf* 163

A HALOPHILIC ENTEROBRYUS IN THE MOLE CRAB *EMERITA TALPOIDA* SAY. *Eunice Thompson Cronin and T. W. Johnson* 167

CHROMOSOME NUMBERS IN MOSSES OF EASTERN NORTH AMERICA. *Lewis E. Anderson and Virginia S. Bryan* 173

NOTES ON THE FLORA OF ROWAN COUNTY, NORTH CAROLINA. *James H. Horton* 200